

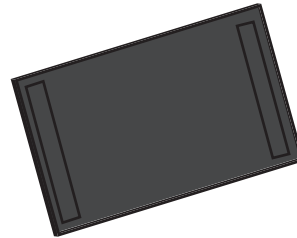
Low Profile Silicon Capacitor

LPSC0603 100nF
935.121.425.610

The IPDiA Technology features High Reliability, up to 10 times better than alternative capacitor technologies & eliminates cracking phenomena.

Silicon Capacitor Technology also offers a very stable value over the full operating voltage & temperature range with a high & stable Insulation Resistance.

This silicon based technology is RoHS compliant and compatible with lead free reflow soldering process.



Key Applications

- All Demanding Applications such as Medical, Telecom, Computer Industries
- High Reliability Applications
- Decoupling / Filtering / Charge Pump (ie. Pacemakers, Mobile Phones)
- Devices with Battery Operations
- Suitable for Embedded Technologies
- Extreme Miniaturization

Key Features

- Ultra Low Profile (100µm)
- High Stability of Capacitance Value;
 - Temperature $< \pm 0.5\%$ (-55 to +150°C)
 - Voltage $< 0.1\%$ / V
 - Negligible Capacitance Loss through Ageing
- Unique High Capacitance in EIA/0201 Package Size, up to 10nF
- High Reliability (FIT < 0.017 parts / billion hours)
- Low Leakage Current $< 100\text{pA}$
- Low ESL and Low ESR
- Suitable with Lead Free Reflow-Soldering

Part Number

935.132.

B. 2

S.

U.

XX

ie. 10nF/0201 case (LPSC type) → 935.121.423.510

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Breakdown

Voltage:
4 = 11V
7 = 30V

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Size:

2 = 1005
3 = 0201
4 = 0402

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Unit:

0 = 10f 5 = 1n
1 = 0.1p 6 = 10n
2 = 1p 7 = 0.1u
3 = 10p 8 = 1u
4 = 0.1n 9 = 10u

↓
Value

Parameters	Value
Capacitance Range	10nF
Capacitance Tolerances	$\pm 15\%$
Operating Temperature Range	-55°C to 150°C
Storage Temperatures	-70°C to 165°C
Temperature Coefficient	$< \pm 0.5\%$, from -55°C to +150°C
Breakdown Voltage (BV)	11VDC, 30VDC
Capacitance Variation Vs. RVDC	0.1% / V (from 0 V to RVDC)
Equivalent Serial Inductor (ESL)	Max 100pH
Equivalent Serial Resistor (ESR)	Max 400mΩ
Insulation Resistance	100GΩ min @ 3V, 25°C
Ageing	Negligible, $< 0.001\%$ / 1000h
Reliability	FIT < 0.017 parts / billion hours
Capacitor Height	Max 100µm